

CROSSFLOW THROMBECTOMY CATHETER AND SYSTEM

ABSTRACT OF THE DISCLOSURE

5 Crossflow thrombectomy catheter and system for fragmentation
and removal of thrombus or other material from blood vessels or other body
cavities. High velocity saline jets emitted from a toroidal loop jet
emanator or other jet emanator in a catheter distal end entrain fluid
10 through inflow orifices, and with flow resistances create a back-pressure
which drives crossflow streams through outflow orifices in a radial
direction and thence radially and circumferentially to apply normal and
drag forces on thrombotic deposits or lesions in the blood vessel or other
body cavity, thereby breaking apart and transporting thrombus particles
to be entrained through the inflow orifices, whereupon the high velocity
jets macerate the thrombus particles which then transit an exhaust lumen
or recirculate again via the outflow orifices.